

# ANNUAL REPORT

OF THE COMMITTEE OF THE

MANCHESTER AND SALFORD

# SANITARY ASSOCIATION

(Established A.D. 1852)

AND OF THE

COMMITTEES OF ITS AFFILIATED

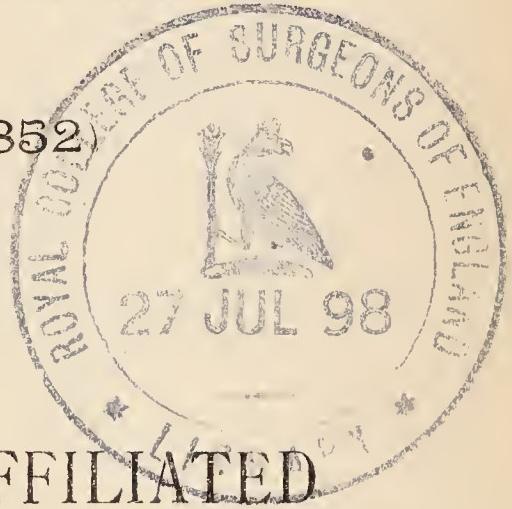
SOCIETIES:

LADIES' HEALTH SOCIETY,

SMOKE ABATEMENT LEAGUE.

—

FOR 1897.



AT THE ANNUAL MEETING of the Manchester and Salford Sanitary Association and its Affiliated Societies—The Ladies' Health Society, and the Manchester and Salford Smoke Abatement League—held in the LORD MAYOR'S PARLOUR, TOWN HALL, MANCHESTER, on Monday, March 7th, 1898,

The Right Hon. the LORD MAYOR OF MANCHESTER in the Chair,

The Reports and Treasurers' Accounts, copies of which lay on the table, were, by consent, taken as read ; and it was, on the motion of the CHAIRMAN, seconded by Prof. LEECH, M.D., and supported by the Rev. S. N. PERRY, M.A.,

*Resolved*—“That the Reports, as presented by the Committees of the Associations, in Union, of their proceedings in the year 1897, with the Treasurers' Accounts, be approved, and that the Committees be requested to print and widely circulate the same.”

Moved by Principal HOPKINSON, seconded by Canon DAVENPORT KELLY, supported by Prof. BOYD DAWKINS, Mr. FRANCIS GREG, and Prof. DELÉPINE, and

*Resolved*—“That this Meeting approves of the objects and method of work of the several Committees connected with the Manchester and Salford Sanitary Association, and considers that the efforts made by them to spread among the people a knowledge of the laws of health, to promote cleanliness, temperance, and thrift, to obtain a purer atmosphere, to improve the dwellings of the poor, and to preserve the lives of their children, deserve a more adequate support from the general public.”

Moved by Dr. R. M. PANKHURST, seconded by Alderman ROBINSON, and

*Resolved*--“That the best thanks of the Meeting be given to the President, Vice-Presidents, Officers, and Committees for their services during the past year, and that the following Ladies and Gentlemen be requested to act for the ensuing year.” (See pages 3 and 24.)

The Chair having been taken by Dr. LEECH, it was

Moved by Dr. EMRYS JONES, seconded by Mr. T. C. ABBOTT, and

*Resolved*—“That the best thanks of this Meeting be given to the Right Honourable the Lord Mayor of Manchester for granting the use of his Parlour for and presiding at this Meeting, and to the Lady Mayoress for her hospitality.”

# Manchester and Salford Sanitary Association.

## COMMITTEE AND OFFICERS FOR THE YEAR 1898.

### *President :*

THE RIGHT REV. THE LORD BISHOP OF MANCHESTER.

### *Vice-Presidents :*

THE RIGHT HON. THE LORD MAYOR OF MANCHESTER.

THE RIGHT WORSHIPFUL THE MAYOR OF SALFORD.

THE VERY REV. THE DEAN OF MANCHESTER.

THE VENERABLE ARCHDEACON WILSON.

B. ARMITAGE, Esq., J.P.

THE RIGHT HON. JACOB BRIGHT.

SIR HENRY E. ROSCOE, F.R.S.

A. RANSOME, M.D., M.A., F.R.S.

Professor REYNOLDS, F.R.S.

JOHN ROBERTS, M.D.

HENRY SIMPSON, M.D.

Professor WM. STIRLING, M.D.,  
D.Sc.

JOHN TATHAM, B.A., M.D.

GEORGE BOWRING, Esq., F.R.C.S.

HENRY BROWNE, M.D.

FRANCIS GREG, Esq.

JAMES HARDIE, Esq., F.R.C.S.

A. EMRYS-JONES, M.D., J.P.

JAMES NIVEN, Esq., M.A., M.B.

H. PHILIPS, Esq., J.P.

### *Treasurer :*

S. L. HELM, Esq.

### *Honorary Secretaries :*

T. C. ABBOTT, Esq.

| R. T. WILLIAMSON, M.D.

### *Committee :*

#### *Chairman*—Professor DANIEL J. LEECH, M.D.

JOHN ANGELL, Esq., F.C.S., F.I.C.

ALFRED BROWN, M.D.

JAS. FILDES, Esq.

W. E. FOTHERGILL, M.D.

WM. GRAHAM, M.D.

J. W. HAMILL, M.D.

W. M. HAMILTON, M.D.

C. HEATHCOTE, Esq., F.R.I.B.A.

T. C. HORSFALL, Esq., J.P.

H. R. HUTTON, Esq., M.B., M.A.

JAMES JOHNSTON, Esq., J.P.

Rev. E. F. LETTS, M.A.

Rev. J. E. MERCER, M.A.

Professor J. DIXON MANN, M.D.

J. E. PHYTHIAN, Esq.

Rev. S. NUGENT PERRY, M.A.

H. W. POMFRET, M.D., F.R.C.S.

CHAS. PORTER, M.D.

E. S. REYNOLDS, M.D.

F. W. ROE RYCROFT, Esq.

W. SAWERS SCOTT, M.D.

E. SIDEBOOTHAM, M.D.

J. W. SMITH, Esq., M.B., F.R.C.S.

WM. THOMSON, Esq., F.R.S. Ed.,  
F.C.S.

F. VACHER, Esq., F.R.C.S.

R. B. WILD, M.D., M.R.C.S.

R. W. WILDE, Esq.

Rev. Canon WOODHOUSE, M.A.

### *Delegates from Ladies' Health Society :*

Mrs. CLAY.

Mrs. REDFORD.

### *Secretary :*

Mr. FRED SCOTT.

*Office : Temple Chambers, 33, Brasennose Street, Manchester.*



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MANCHESTER AND SALFORD

# SANITARY ASSOCIATION.

## REPORT FOR 1897.

THE Committee have pleasure in presenting to their subscribers a summary of their proceedings during the twelve months ended December 31st, 1897.

*Jubilee Memorial.*—In response to an appeal from the Metropolitan Public Gardens Association, suggesting local action to secure more open spaces for recreation to commemorate the sixtieth year of the Queen's reign, the Committee suggested to the Parks Committees, the Justices of the Peace, and the School Boards, the formation of a joint committee, in which the Association should be represented, to consider methods of ensuring the fullest possible utilisation of existing facilities of physical training, and the provision of additional facilities. The authorities did not, however, see their way to act upon the suggestion.

*Cottage Baths.*—No action having been taken by the Baths Committee to give effect to the suggestion made by a deputation from the Health Conference in 1895, in favour of the provision of cottage baths in densely populated districts, it was arranged early in the past year that a joint deputation from the Committee and the Ladies' Health Society should wait upon the Baths Committee to again urge the proposal. The reply, to the great surprise and regret of the Committee, was unfavourable. See Appendix (A).

The refusal of the Baths Committee to adopt this simple method of bringing the possibility of using baths within the reach of the very large proportion of the inhabitants of Manchester whose homes are at a considerable distance from the large Public Baths, is the more surprising because in other towns where the conditions are far less unfavourable to health and cleanliness than they are in Manchester, very great efforts are being made to train all the members of the poorest classes to form the habit of using baths frequently. In Berlin each of seven large Elementary Schools has been supplied by the Town Council with a large

number of shower-baths, which are used weekly by almost all the children attending the schools. The Elementary Schools in several other German towns have also been supplied with baths.

The Committee still hope that this most desirable experiment may be tried.

*Sanitary Inspection of Houses.*—The Committee have had under consideration a communication from a Sanitary Engineer of much experience as a Local Board Surveyor (Mr. Joseph Swarbrick), on the importance of testing the drainage and plumbers' work of new houses by the Sanitary authorities before occupation was permitted. A memorial urging such inspection and tests was addressed to the following bodies, viz., The Town Councils of Salford, Eccles, and Middleton, the Urban District Councils of Ashton-on-Mersey, Altrincham, Audenshaw, Levenshulme, Swinton and Pendlebury, Alderley Edge, Stretford, Failsworth, Bowdon, Wilmslow, Urmston, Droylsden, Irlam, Gorton, Sale, Moss Side, Prestwich, and the Rural District Council of Bucklow-Knutsford. In most cases favourable consideration of this obviously essential precaution was promised. For copy of Memorial, see Appendix (B).

*Use of Water Gas.*—Much attention has been devoted by the Committee to the practice now adopted in many instances by gas companies and municipal gas committees, of manufacturing water gas for admixture with ordinary coal gas for illumination, &c. Deputations from the Association waited upon the Gas Committees of Manchester and Salford, and presented Memorials setting forth serious dangers thus caused to the public health. A copy of the Memorial (identical in each case) is given in the Appendix (C). The reply from the Salford Gas Committee was that they had made no provision yet for the manufacture of water gas, and if they contemplated such a step they would keep the Memorial of the Association in mind. The Manchester Gas Committee, having already laid down plant, gave no such satisfactory assurance, and the Committee accordingly determined to address a Memorial to the President of the Local Government Board, for copy of which see Appendix (D).

The Committee cannot too strongly protest against the introduction into dwelling houses of so dangerous a means of illumination as water gas, and desires to direct the attention of the citizens of Manchester to some recent statistics which corroborate in a striking manner the views formulated by the Committee in the above-named memorials. During the year 1897, in Philadelphia, where water gas is largely used as a domestic illuminant, 34 deaths occurred from poisoning by carbon monoxide derived from water gas, of which it constitutes the poisonous component. Of these 18 were suicidal, 14 accidental, and 2 homicidal. The relatively excessive preponderance of suicidal deaths is an extremely significant fact, showing that the inhabi-

tants of Philadelphia have had the poisonous nature of water gas so forcibly and so frequently brought home to them as to make its deadly properties a matter of common knowledge.

*Winter Lectures.*—The work of the Association in providing lecturers to address working-class audiences on health subjects has been continued, and the audiences obtained have been in all cases satisfactory. The work of the Ancoats and Hulme Healthy Homes Societies in this direction deserves special commendation. The following is a list of the lectures, and the Committee desire to record their thanks to the various gentlemen who have assisted.

LECTURER.	PLACE.	SUBJECT.
Dr. NIVEN .....	New Islington Hall..	" How a City may be supplied with good Milk."
Rev. S. N. PERRY, M.D. ...	Do.	" Duties and Responsibilities."
Dr. FOTHERGILL .....	Art Museum, Ancoats	" Ourselves and Others."
Dr. FOTHERGILL .....	Failsworth .....	" Care of Young Children."
Dr. WORSWICK .....	New Islington Hall..	" Why Young Children Die."
Dr. A. BROWN .....	Do.	" The Care of the Lungs."
Dr. R. B. WILD .....	Do.	" Dirt, Darkness, and Disease."
Prof. DIXON MANN, M.D...	Do.	" The Way to Prevent Disease."
Dr. J. E. PLATT .....	Do.	" Prevention of Consumption."

*Smoke Nuisance.*—The great difference between the action of Salford and that of Manchester in dealing with the Smoke Nuisance has for some time attracted the attention of the Committee, and it was determined to make representations to the Salford Council on the subject. Accordingly a joint deputation from the Association and the Smoke Abatement League waited upon the Mayor of Salford and presented a memorial, of which a copy appears in the Appendix (E). There is reason to hope that as a result of this action some effort will be made in Salford to abate the nuisance.

*Lamp Explosions.*—A considerable number of reports have been supplied to the Association by the police of Manchester and Salford during the year on lamp accidents, the fragments of exploded lamps being always sent at the same time for examination. Latterly, samples of the oil in use have also been asked for, so that the quality, as indicated by the flash point, might be tested. The whole have been submitted to Mr. William Thomson, of the Royal Institution Laboratory, whose forthcoming report on the whole subject will, it is believed, be a very interesting and valuable document.

*Sewage Disposal.*—The Association has always closely watched the varying phases of the question of disposal of Manchester and Salford sewage, and in the past has unquestionably exercised considerable influence in directing public opinion; indeed, it is not too much to claim that the enormous improvement represented by the abolition of the old open middens was due to the agitation carried on by the Association. With the advance of sanitary

science, however, there seems to be a general consensus of opinion that, for such populous centres as Manchester, the practicable method of removal is the "Water Carriage System," and the steps taken by the corporations of Manchester and Salford for conducting by large main drains, capable of conveying to outfall works, all sewage and drainage of the city, however large the quantity may be, involve the adoption of that system in Manchester and Salford. The Committee of the Manchester and Salford Sanitary Association have been engaged in enquiries as to whether any dangers to health have been noted from the employment of any of the methods of flushing and water supply in the various towns which have adopted the closet system, with the view of representing to the authorities such dangers as may be noted. The Committee did not think it desirable to enter into the question of the adoption or otherwise of the Culvert Scheme; but as that scheme has been rejected by the ratepayers, and as the Committee think that they may, without interfering in any way with the function of the Rivers Committee, render useful service by forming public opinion on the subject, they propose to include it amongst the questions to be discussed at a Conference of experts on Sewage Disposal, which is to be held shortly.

It is manifest that, owing to the alteration of the system of dealing with excreta in Manchester and Salford, great changes will be required in drains and sewers, and the Committee therefore intend to submit for discussion at the Conference the following subjects:—

1. Sanitary arrangements of houses: trained inspectors.
2. Character of drainage: Yard drains; street drains; effluent sewage.
3. Character of water closets: danger of freezing in winter.

In anticipation of this Conference arrangements were made to visit the Corporation Outfall Sewage Works at Davyhulme, and a large party availed themselves of the opportunity. The Conference will be held early in 1898.

*Notification of Infectious Diseases.*—The Committee would draw attention to the fact that the Act for the notification of infectious disease has been "adopted" by 125 of the 137 Sanitary Districts of Lancashire, and throughout the country is enforced over 26 out of 28 millions of the people. They would strongly urge that the adoption of the Act should no longer be optional, but that it should be universally enforced. The gain to sanitary science to have complete and regular returns of all cases of infectious disease would be very great.

*Miscellaneous*—Amongst other subjects dealt with by the Committee have been "Teaching of Good Citizenship in Schools," "Municipal Reform," and "Artisans' Dwellings." No action with

respect to the first two subjects has yet been taken, but with respect to the "Housing of the People," it is proposed to arrange for a Conference as early as possible, to discuss means whereby private enterprise may assist the authorities in meeting a very great and urgent want.

*Funds.*—The continued activity of the Association necessarily depends to a large extent on the pecuniary support afforded by the public. The present subscription list is inadequate to meet standing expenses, and the Committee therefore earnestly appeal for new or increased contributions.

*Press Services.*—The Committee desire to record their grateful acknowledgment of the valuable assistance rendered to them by the local press in publishing reports of proceedings from time to time, and frequently supporting the Committee's action by editorial articles.

*Health of Manchester during 1897.*—During the year 1897 Manchester has not been visited by any serious epidemic of disease, and it is satisfactory to learn that no case of smallpox has been notified. The death rate is still very high, however—22·8 per 1,000.

At the commencement of any epidemic of disease the importance of the detection of early cases is evident. Recently a method of bacteriological examination of the blood has been discovered, by which typhoid fever can often be detected with certainty in many cases in which the symptoms are doubtful; and we are glad to find that the Medical Officer of Health at once made arrangements by which a drop of the blood of doubtful cases of typhoid fever can be examined bacteriologically in the Pathological Laboratory of the Owens College. Some time ago similar arrangements were made for the bacteriological examination in cases of suspected diphtheria. No doubt such examinations will be of great service, and, in an indirect manner, will do much to check the spread of these two diseases in Manchester.

MANCHESTER AND SALFORD SANITARY ASSOCIATION.

*Treasurer's Statement of Income and Expenditure for the Year 1897.*

Dr.

1897.	INCOME.	£	s.	d.	1897.	EXPENDITURE.	£	s.	d.
Dec. 31.	To Subscriptions .....	135	16	6	Jan. 1.	By Balance owing to Bank.....	30	7	7
,	, Interest on Investment with				Dec. 31.	, Secretary's Salary.....	100	0	0
,	Tyne Conservancy Board ...	7	15	0		, Rent and Taxes .....	40	0	0
,	, Lecture Fees, Clitheroe .....	10	10	0		, Printing, Stationery, and En-			
,	, Offertory, Manchester Cathedral	2	1	1		grossing .....	33	0	9
,	, Receipts from Davyhulme Trip	5	5	0		Advertising .....	8	8	0
,	, Balance owing to Bank .....	74	7	4		, Postages and Petty Cash .....	8	0	9
						, Collector's Commission .....	6	14	5
						, Income Tax on Interest .....	0	5	2
						, Sundry Payments.....	2	7	4
						, Insurance .....	0	3	0
						, Payments on behalf of Davy-			
						hulme Trip .....	5	6	11
						, , Cash in hand .....	1	1	0
							£235	14	11
							£235	14	11

Examined and found correct,

JONES, CREWDSON, & YOUATT,

Chartered Accountants,

Hon. Auditors.

26th January, 1898.

## SUBSCRIBERS, 1897.

	£	s.	d.
A Friend .....	0	7	6
Angell, John, Esq., F.C.S., 6, Beaconsfield, Derby Road, Fallowfield	0	10	6
Armitage, B., Esq., Chomlea, Pendleton .....	1	1	0
Atkinson, A. H., Esq., Clarence Street .....	1	1	0
 Bannerman, J. A., Esq., 33, York Street.....	1	1	0
Barbour, Messrs. R. and Brother, Aytoun Street .....	2	2	0
Barlow and Jones Limited.....	2	2	0
Behrens, Sir J. and Sons, Limited, Princess Street .....	2	2	0
Behrens, Messrs. S. L. and Co., 22, Oxford Street.....	2	2	0
Behrens, Messrs. Louis and Sons, Portland Street.....	0	10	6
Boddington's Breweries Limited, Strangeways .....	1	1	0
Brooks, Sir W. Cunliffe, Bart., M.P.....	2	2	0
Broome, Joseph, Esq., 1, St. Peter's Square .....	1	1	0
Browne, Dr. Henry, Victoria Park .....	1	1	0
Bowler, Mrs. W., Palatine Road, Withington .....	1	1	0
 Clegg, Neville, Esq., Oldfield Brow, Altringham.....	2	0	0
Co-operative Printing Society Limited, Corporation Street .....	2	2	0
Crewdson, A., Esq., Piccadilly .....	1	1	0
Crossley, W. J., Esq., Glenfield, Bowdon.....	3	3	0
 Dahms, Dr. Anna, The Cell, New Islington .....	0	10	6
De Jersey and Co., Messrs., Blackfriars Street .....	2	2	0
Dreschfeld, Dr., Oxford Street .....	0	10	6
 Emrys-Jones, Dr. A., St, John Street .....	0	10	6
Equitable Co-operative Society Limited, Downing Street ..	3	3	0
 Fildes, Mr. Councillor, 39, King Street West.....	1	1	0
Frank, Ernest, Esq., Aytoun Street.....	1	1	0
 Gaddum and Co., South Street.....	1	1	0
Gaddum, H. T., Esq., Brown Street.....	2	2	0
Galloways, Messrs., Limited, Chester Road, Hulme .....	2	2	0
Garnett, Stewart, Esq., Pendleton .....	1	1	0
Gleave, Jos. Jas., Esq., Withington Road, Whalley Range .....	0	10	6
Graham, William, and Co., Messrs., Sackville Street.....	1	1	0
Great Central Railway Company .....	1	1	0
Greg Brothers and Co., Messrs., Chancery Place, Booth Street .....	2	2	0
Greg, Francis, Esq., Chancery Place, Booth Street .....	2	2	0
Graham, Dr. W. .....	0	10	0
 Hadfield, George, Esq., St. Ann's Square .....	2	2	0
Hamill, Dr., J. W., Bury New Road .....	0	5	0
Hamilton, Dr., Patricroft .....	0	10	6
Harrison, Messrs. E. and Co., Minshull Street .....	2	2	0
Harvey, A. C., Esq., Cooper Street .....	1	1	0
Haworth, J., Esq., Pall Mall .....	2	2	0
Haworth, A., Esq., Pall Mall.....	2	2	0
 <i>Carried forward .....</i>	<i>60</i>	<i>7</i>	<i>0</i>

	£	s.	d.
<i>Brought forward.....</i>	60	7	0
Haworth, Messrs. Richard and Co., High Street .....	3	3	0
Heathcote, Chas., Esq., 6, Princess Street .....	1	1	0
Helm, S. L., Esq., Somerville, Middleton Road, Hr. Crumpsall .....	2	2	0
Hewit, R. P., Esq., Princess Street .....	1	1	0
Heywood, John, Ridgefield.....	1	1	0
Hinrichsen, Messrs. S. and Co., 34, Queen Street .....	1	1	0
Hodgkinson, Dr. A.. St. John Street .....	1	1	0
Horsfall, T. C., Esq., Swanscoe Park, Macclesfield .....	2	2	0
Houldsworth, Sir W. H., Bart., M.P., Knutsford .....	2	2	0
Hyland, Mrs. Rose, Victoria Park, Manchester .....	1	1	0
Holliday, Wise, and Co., Messrs., 57, King Street .....	1	1	0
 Jones, Jas. E., Esq., Portland Street .....	1	1	0
Joynson, E. W., Esq., Ashfield, Sale.....	1	1	0
 Kendal, Milne, and Co., Messrs., Deansgate .....	2	2	0
Kessler, William, Esq., 33, Dale Street.....	1	0	0
Kirkman, W. W., Esq., John Dalton Street .....	1	1	0
Knoop, H. L., Esq., 3, Percy Terrace, Moss Lane East .....	0	10	6
Kolp, Kullmann, and Co., Messrs., Hall Street, Oxford Street .....	1	1	0
Kolp, N., Esq., Victoria Park .....	1	1	0
 Langworthy Bros. and Co. Limited, Messrs., Greengate .....	1	1	0
Lee, Messrs. W. and R. K., Victoria Buildings .....	1	1	0
Leech, Dr., 96, Mosley Street .....	1	1	0
Lyon, Lord, and Co., Messrs., Princess Street.....	1	1	0
 Mann, Professor J. Dixon .....	1	0	0
Mather, W., Esq., Wood Hill, Prestwich .....	2	2	0
Mather, J., Esq., King Street .....	0	10	0
Maxwell, Frank, Esq., 41, Corporation Street.....	1	1	0
Middleton, T. C., Esq., 29, Princess Street .....	0	10	6
Murray, A., Esq., Hazeldean, Kersal.....	1	1	0
 Nordlinger, Messrs. S. and C., Portland Street .....	1	1	0
 Philips, H., Esq., Sutton Oaks, Macclesfield .....	3	0	0
Philips, Messrs. J. and N. and Co., Church Street.....	2	2	0
Phythain, J. E., Esq., Brazennose Street.....	0	10	0
Piggott, Arthur E., Esq., King Street .....	0	5	0
Potter, A. B., Belgrave Crescent, Eccles .....	1	1	0
 Railton, Sons, and Leedham, Messrs., Cross Street .....	2	2	0
Ralli Brothers, Messrs , Peter Street .....	1	1	0
Ransome, Dr. A., Sunnyhurst, Bournemouth.....	1	1	0
Reiss, Fritz, Esq., Quay Street .....	2	2	0
Reiss, Emil, Esq., Quay Street .....	2	2	0
Ross, Malcolm, and Sons, Messrs., Cromford Court .....	1	1	0
Roscoe, Sir H. E., Bramham Gardens, London, S.W. ....	1	0	0
Rylands and Sons Ltd., Messrs., New High Street .....	1	1	0
 Samson and Leppoc, Messrs., St. Peter's Square .....	1	1	0
Schuster, Fulda, and Co., Messrs., 12, Sackville Street.....	2	2	0
Scotson, J., Esq., Higher Grade Schools, Deansgate .....	0	5	0
Scott, C. P., Esq., M.P., The Firs, Fallowfield .....	1	1	0
 <i>Carried forward.....</i>	<i>120</i>	<i>7</i>	<i>0</i>

	£	s.	d.
<i>Brought forward</i> .....	120	7	0
Scott, R., Esq., Denzel, Bowdon .....	1	1	0
Simpson, Dr., Colwyn Bay.....	0	10	6
Sington, Messrs. A. and Co., Portland Street .....	1	1	0
Southern, J. W., Esq., Burnage Lodge, Levenshulme .....	1	1	0
Steinthal, Messrs. and Co., Whitworth Street.....	1	1	0
Strines Printing Co., Messrs., The, George Street .....	2	2	0
Stewart, Thomson, and Co., Messrs., Todd Street, Corporation Street	1	1	0
Taylor, Garnett, and Co., Messrs., Cross Street .....	2	2	0
Thornliebank Co. Limited, Portland Street .....	1	1	0
Toller, T. N., Esq., Fallowfield .....	1	0	0
Thomson, Wm., Esq., Laboratory, Princess Street.....	2	2	0
Vacher, Dr. Francis, Birkenhead .....	1	1	0
Waters, Messrs. J. and E. and Co., Mosley Street .....	1	1	0
Watt, R. H., Esq., 7, Piccadilly.....	0	10	0
Watts, Messrs. S. and J. and Co., Portland Street .....	1	1	0
Wholesale Co-operative Society, Balloon Street.....	5	5	0
Woolley, J., Sons, and Co., Messrs., Victoria Bridge.....	1	1	0
Worthington, Thomas, Esq., Brown Street.....	1	1	0
Worthington, S. B., Esq., Princess Street .....	1	1	0
	<hr/>		
	£146	10	6
	£	s.	d.
Less subscriptions prepaid, 1896.....	2	12	0
Less subscriptions outstanding .....	10	4	0
	<hr/>		
	12	16	0
	£	133	14
Add subscriptions paid for 1896 .....	2	2	0
	<hr/>		
	£135	16	6
	<hr/>		

## APPENDIX.

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### A.—COTTAGE BATHS.

AT A MEETING OF THE BATHS COMMITTEE OF THE COUNCIL, HELD THE  
16TH DAY OF MARCH, 1897.

*Resolved*—

“That having given their careful consideration to the views expressed by the deputation, attending before them on the 2nd inst., in respect to the provision of Cottage Baths in the poorest districts of the city, the Committee regret they are unable to comply with the request of the deputation, and that a communication to this effect be forwarded to the Manchester and Salford Sanitary Association and Ladies’ Health Society.”

(A true Extract.)

(Signed)      Wm. HENRY TALBOT,  
Town Clerk.

The Manchester and Salford Sanitary Association and Ladies’ Health Society

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### B.—SANITARY INSPECTION OF HOUSES.

TO THE URBAN DISTRICT COUNCIL OF .

*The Memorial of the Manchester and Salford Sanitary Association*

RESPECTFULLY SHEWETH,

That your Memorialists are an old established voluntary organisation for the promotion of Sanitary Reform.

That they have long regarded the Sanitary Inspection of dwelling and other premises as an effective means of protecting the public health.

That when left to individual initiative, inspection is only of partial and therefore inadequate character.

That in many cases injury is caused to health by persons occupying new houses in which the drainage or plumbers’ work, or both, are defective.

That inasmuch as it is the function of Sanitary Authorities to protect the residents in their districts by means of building regulations, it is only consistent that in order to render such regulations entirely effective, all new work of drainage and plumbing should be tested before premises are allowed to be occupied, mere inspection as now generally practised affording no guarantee that the work has been satisfactorily done.

Your Memorialists would further urge that the experts employed for such work should also undertake, at a fixed scale of charges, the inspection of dwellings already occupied, on application by the tenants, and thus by the profits of this work minimise the cost to the ratepayer of testing new buildings.

Your Memorialists trust that in the interests of the health of your district you will see your way to adopt their suggestions.

And your Memorialists will ever pray, &c.

D. J. LEECH, M.D., F.R.C.P., Chairman.

T. C. ABBOTT,  
R. T. WILLIAMSON, M.D., } Hon. Secs.

FRED SCOTT, Secretary.

33, Brazenose Street, Manchester, June 15th, 1897.

### C.—USE OF WATER GAS.

TO THE CHAIRMAN AND MEMBERS OF THE GAS COMMITTEE, MANCHESTER CORPORATION.

*The Memorial of the Manchester and Salford Sanitary Association*  
RESPECTFULLY SHEWETH,

That your Memorialists view with much concern the growing practice of Municipal Gas Committees and Gas Companies to use water gas as an ingredient in the composition of gas for illuminating purposes.

It is well known that ordinary coal gas is poisonous when respired, its poisonous property being due to the presence of a gas called carbon monoxide, which exists naturally in coal gas in the proportion of from 4 to 8 per cent. Water gas contains 40 to 45 per cent of carbon monoxide, and when used to mix with coal gas or with oil gas the percentage of carbon monoxide in the illuminating gas thus composed is raised from 4 or 8 per cent to not less than 18 or 20 per cent; in other words, the poisonous property of gas thus constituted is increased to at least threefold of that of ordinary coal gas.

Carbon monoxide poisons people by combining with the principal component of blood, and in doing so renders the blood unfitted to perform its chief function of conveying oxygen from the lungs to the various parts of the body. If oxygen is not so conveyed, the individual whose blood is thus incapacitated dies of suffocation just as surely as though he were strangled by a cord round the neck.

Carbon monoxide is an especially dangerous gas, because the longer it is inhaled the greater is the amount that accumulates in the blood, so that a person may be fatally poisoned even by a small proportion (as small as 0·5 per cent) of the gas in air which is respired for some time, the blood gradually taking up more and more until at last it loses all power of performing its function, and then the sufferer dies.

Another dangerous property possessed by carbon monoxide is that it is odourless. When mixed with coal gas or oil gas, the mixture will have the odour of coal or oil gas, but the large amount of carbon monoxide that will be present will tend to diminish the intensity of the odour originally possessed by the coal or oil gas, to such an extent as to render a small accidental escape of the combined gases scarcely, if at all, perceptible to the sense of smell, and yet in this way sufficient carbon monoxide may diffuse itself amongst the air to fatally poison any one who breathes it, as in the case of a person sleeping in a bedroom for several consecutive hours.

Besides the quickly fatal form of poisoning by carbon monoxide, there is another way in which this gas acts prejudicially on the health. If it is present in only an infinitesimal amount in the air of a room, and the air so contaminated is breathed for a number of hours daily, although life is not immediately threatened, the health of the individual who respires the contaminated air suffers: He becomes subject to headache, anaemia, loss of flesh, breathlessness, and inflammation of the nerves, causing shooting pains in various parts of the body, a condition which will end in paralysis if the cause be not removed.

For the reason above given water gas is a most dangerous ingredient to add to a gas which is used as an ordinary means of illumination. The objections urged against water gas are not solely founded on theoretical or scientific grounds ; in places where the gas has been but for a short time used, many lives have been sacrificed by it already.

Your Memorialists strongly urge the necessity for obviating the dangers which would most certainly arise were water-gas introduced into the Manchester gas supply, and trust you will not expose the users of gas to such dangers.

And your Memorialists will ever pray, &c.

D. J. LEECH, M.D., F.R.C.P., Chairman.

T. C. ABBOTT,  
R. T. WILLIAMSON, M.D., } Hon. Secretaries.

FRED SCOTT, Secretary.

33, Brazenose Street, Manchester, July 1st, 1897.

## D.—USE OF WATER GAS.

THE RIGHT HON. HENRY CHAPLIN, M.P., &c., PRESIDENT OF THE LOCAL GOVERNMENT BOARD.

*The Memorial of the Manchester and Salford Sanitary Association*

RESPECTFULLY SHEWETH,

That your Memorialists are a Society instituted nearly half a century ago, consisting of Medical Men, Chemists, Engineers, Ministers of Religion, and other Professional Men, Merchants, Bankers, &c., voluntarily associated for the promotion of measures calculated to improve or protect the public health.

That your Memorialists have observed with alarm the growing practice of Corporate Authorities and other producers of gas for illuminating purposes to manufacture water gas for admixture with ordinary coal gas.

That the unavoidable presence of from 6 to 8 per cent of carbon-monoxide in ordinary coal gas renders such gas sufficiently dangerous to life when air which is contaminated with it is breathed by human beings.

That the addition to such gas of considerable quantities of water gas—which contains from 30 to 40 per cent of carbon-monoxide—will increase the poisonous property of the mixed gases to such a degree as to greatly multiply the cases of acute poisoning from the inhalation of illuminating gas which accidentally escapes into dwelling houses.

That trifling leakages of gas which are to be found in almost every dwelling house will be productive of chronic carbon-monoxide poisoning of an insidious but highly dangerous type, such leakages being, practically speaking, inevitable, the admixture of water gas with the ordinary supply of illuminating gas would be to introduce an additional cause of disease into all households where gas is used either as an illuminant or for any other purpose. Insignificant leakages of ordinary coal gas (which by reason of the extremely small percentage of carbon-monoxide present in the contaminated atmosphere of a room may for all practical purposes be regarded as harmless) would, with the increased percentage of carbon-monoxide derived from the admixed water gas, prove highly detrimental to health.

That numerous fatal cases of acute poisoning, and cases also of chronic poisoning of carbon-monoxide, have already occurred in places where water gas has been used as an adjunct to domestic illuminating gas.

That the Gas Committee of the Manchester Corporation has recently laid down plant which is capable of producing water gas on a large scale, with the avowed intention of using it in order to supplement the supply of illuminating gas intended for domestic purposes.

That in a case of recent application by the Stockport Corporation for powers to borrow money for the purpose of erecting plant for the manufacture of water gas the Local Government Board made certain stipulations calculated to check the unrestricted supply of water gas.

Your Memorialists have good reasons for apprehending serious consequences of the kind mentioned already, as a result of the action of the Gas Committee of the Manchester Corporation, and they earnestly pray that your Board will exercise its powers by either prohibiting the admixture of water gas with illuminating gas altogether, or at least by fixing a limit of the proportion of carbon monoxide which shall not be exceeded in the gas supplied to the public, and by requiring that the gas shall be analysed for the information of the public by an independent authority.

And your Memorialists will ever pray, etc.

(Signed) D. J. LEECH, M.D., F.R.C.P., Chairman of Committee.

T. C. ABBOTT,  
R. T. WILLIAMSON, M.D. } Hon. Secs.

FRED SCOTT, Secretary.

33, Brazennose Street, Manchester, November, 1897.

## E.—SMOKE NUISANCE.

TO THE RIGHT WORSHIPFUL THE MAYOR, ALDERMEN, AND COUNCILLORS  
OF THE COUNTY BOROUGH OF SALFORD.

*The Joint Memorial of the Manchester and Salford Sanitary  
Association and The Smoke Abatement League*

RESPECTFULLY SHEWETH,

That in the opinion of your Memorialists the time has come when more active steps should be taken by your Health Committee in the suppression of the Smoke Nuisance.

That a great difference exists between the procedure of the Manchester Corporation and that of Salford in dealing with this evil. In consequence of the undue indulgence extended to smoke producers in Salford the atmosphere of the Borough is much more polluted than that of Manchester, and owing to the diffusion of the smoke the inhabitants of Manchester have to suffer from a nuisance over which they have no control.

Your Memorialists earnestly urge that you will assimilate your procedure in respect of the Smoke Nuisance to that of Manchester, and require your Bye-laws relating to smoke to be more effectively administered.

And your Memorialists will ever pray, &c.

For the Manchester and Salford Sanitary Association,

D. J. LEECH, M.D., F.R.C.P., Chairman.  
T. C. ABBOTT,  
R. T. WILLIAMSON, M.D., (Lond.), M.R.C.P. } Hon. Secs.

For the Smoke Abatement League,

JAS. JOHNSTON, Chairman.  
FRED SCOTT, General Secretary.

33, Brazennose Street, Manchester, November 17th, 1897.

# LADIES' HEALTH SOCIETY,

*In union with the Manchester and Salford Sanitary Association.*

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## PRESIDENT.

THE LORD BISHOP OF MANCHESTER.

## VICE-PRESIDENTS.

ARTHUR H. HEYWOOD, Esq.

D. J. LEECH, Esq., M.D., F.R.C.P.

## COLLECTORS.

MISS BEARD.	MRS. S. GAMBLE.	MRS. W. RENSHAW.
MISS BILLINGTON.	MRS. HAMILL.	MISS STUART.
MRS. BISHOP.	MISS G. HAMILTON	MISS C. A. STUART.
MRS. E. BUTTERWORTH	MRS. HARDIE.	MRS. WARD.
MISS L. S. CLARKSON.	MRS. LEDWARD.	MRS. W. H. WILLCOCKS.
MISS COLLINS.	MRS. LOMAX.	MISS WOLFF.
MISS EDLESTON.	MISS OGLE.	MISS WRIGHT.
MRS. FRANKENBURG.	MRS. W. REDFORD.	

## HONORARY TREASURER.

ALBERT DICKENS, Esq., J.P.

## ASSISTANT HONORARY TREASURER.

MRS. REDFORD.

## HONORARY SECRETARIES.

MRS. HARDIE, 15, ST. JOHN STREET, DEANSGATE.

MISS HUGHES, 2, WILTON POLYGON, CHEETHAM HILL.

## HONORARY AUDITORS.

A. A. GILLIES, Esq., F.C.A., 46, BROWN STREET.

## BANKERS.

WILLIAMS DEACON AND MANCHESTER AND SALFORD BANK  
(ST. ANN'S STREET BRANCH).

## WORKING COMMITTEE.

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Mrs. HARDIE, 15, St. John Street, Deansgate, *President.*

Mrs. REDFORD, Willholme, Chorlton-cum-Hardy, *Hon. Treasurer.*

Miss HUGHES, 2, Wilton Polygon, Cheetham Hill, *Hon. Secretary.*

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### LADY SUPERINTENDENTS.

		MANCHESTER DISTRICTS.
Miss STUART, Rock Avon, Kersal	... ... ... ...	Ancoats, West.
Mrs. LEDWARD, 3, Sedgley View, Prestwich	... ... ...	Ancoats, North.
Mrs. THORNHILL SHANN, Meadow Bank, Heaton Norris	... ...	"
Mrs. W. B. WORTHINGTON, 2, Wilton Polygon, Cheetham Hill	Ancoats, South.	
Miss WOLFF, The Clough, Hale, near Bowdon	... ... ...	Ancoats, East.
Miss PHYTHIAN, Newlands, Cheetham Hill	... ... ...	London Road.
Miss M. C. SCOTT, Bent Cottage, Disley	... ... ...	Deansgate.
Mrs. HEWIT, Singleton Hill, Kersal	... ... ...	"
Mrs. HARDIE, 15, St. John Street, Deansgate	... ... ...	"
Mrs. GAMBLE, 30, Wilbraham Road, Fallowfield	... ... ...	St. George's, East.
Miss SCOTT, 69, Withington Road, Brooks's Bar	... ... ...	St. George's, Central.
Mrs. CHARLES HUGHES, The Gables, Singleton Road, Kersal		"
Mrs. RAYNER WOOD, Singleton	... ... ... ...	St. George's, North.
Miss BEARD, 45, Palatine Road, Withington	... ... ...	"
Mrs. PHILPOTT, The Old Brewery House, Monsall Road, Newton Heath	... ... ... ...	Angel Meadow.
Miss CRANSTON, 71, Stocks Street, Cheetham	... ... ...	"
Miss OGLE, Highfield, Bowdon	... ... ... ...	Chorlton-on-Medlock, North
Mrs. ALBERT HOPPRINSON, Wilmslow Road, Withington	... ...	"
Mrs. CLAY, 60, Manley Road, Whalley Range	... ...	Hulme, West.
Mrs. DOCKRAY, Springfield, Upper Chorlton Road	... ...	"
Mrs. COLLIER, Northlands, Altringham	... ... ...	Hulme, Central.

### SALFORD DISTRICTS.

Mrs. RENSHAW, Cliff Grange, Higher Broughton	... ...	St. Simon's.
Mrs. GILL, Clairville, Kersal	... ... ...	"
Mrs. SCHUNCK, Oaklands, Kersal	... ... ...	"
Mrs. BISHOP, 36, Bowker Street, Higher Broughton	... ...	Adelphi.
Mrs. FRANKENBURG, Overbrook, Kersal	... ...	"
Mrs. HAMILL, Clowes House, Higher Broughton	... ...	Greengate.
Mrs. KIRLEW, Taxal Mount, Higher Broughton	... ...	"
Mrs. REES, St. George's Vicarage, Pendleton	... ...	St. George's, Pendleton
Miss JACKSON, Tiverton Lodge, Tetlow Fold, Higher Broughton		Ordsall.

### HONORARY LECTURERS.

Miss HOBBS, Seymour View, Old Trafford.

Mrs. LEO GRINDON, 20, Cecil Street, Greenheys.

Mrs. LOMAS, Beaufort Lodge, Brooklands.

## R E P O R T.

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**A**GAIN we are able to report a satisfactory year of work, which, while it has never been of better quality, has remained constant in quantity ; we have taken up no new districts, but have also dropped none. We have to regret the loss of Mrs. Mercer and Mrs. Lomas as Lady Superintendents of the Angel Meadow district, but two other ladies have been found willing to take their places, and Mrs. Lomas will be still able to give occasional time to the Society in addressing the Mothers' Meetings in various districts. A good feature of the year's work is that, with the exception, we have retained the services of the Health Visitors who were with us at the beginning of the year ; these excellent servants of the Society become more useful the longer they live among the people whom they desire to help, and a new Health Visitor, however great her tact and willingness, is surrounded by a sea of troubles. The difficulty of finding ladies to help in the districts, though it still exists, is overshadowed by a greater difficulty, namely, the want of a sufficient income for carrying on the work. We should have added another district to our list, where a lady who has started a Mothers' Meeting was willing to superintend the sanitary work, but for the want of a sufficient income. A welcome gift of £50 from the Proctor trustees will help the Society over its present difficulties, but to prevent their recurrence an increased subscription list is necessary—“ ‘Tis not enough to help the feeble up, but to support him after”—and we hope that all interested in the society's work will, by steady and patient begging for small subscriptions, help us to achieve our end. Some extracts from Dr. Niven's annual report will show the practical use of some sides of the work done by the Health Visitors. After speaking of the death-rate from phthisis, he says : “ On the other hand, the death-rate from other tubercular diseases stands at the same low figure as in that year (1894). It may be permitted us to hope that this is due to the strenuous efforts which have been made to instruct mothers in the necessity, under existing conditions, of boiling milk before giving it to infants. This is a genuinely-sustained course of instruction, for the continuance of which we have to thank the District Registrars and the Ladies' Health Society.” Then, in speaking of the instruction of girls in the feeding and clothing of young children, he says : “ The most important things, then, to instil into girls in handling infants, is the necessity for rational feeding, and the extreme importance of clean, dry, woollen garments to cover the whole body. I have to acknowledge valuable

aid from the Ladies' Aid Society in the instruction of mothers in these cardinal principles."

Speaking of an inquiry into "the connection between deaths described as due to *tabes mesenterica* and the course of feeding which had preceded them," he says: "It appeared to me that the subject required reinvestigation, with especial reference to this question of the boiling of milk used by infants. . . . I have, therefore, had an inquiry made by two Visitors of the society (the Ladies' Health Society) into the whole subject of infant feeding, on the same lines as I had previously followed with the Sanitary Inspectors, and subsequently with Dr. Tonkin. In effect, this had been exceedingly well carried out, and bears on its face the marks of care and accuracy. I have also, in addition, had an inquiry made into this particular point: How far do parents actually boil the milk which they give to their children? This special point has been inquired into by the Health Visitors generally. It relates to one particular matter, in which they were carefully instructed as to the sources of error, and was, of course, a much simpler inquiry than the other."

The following is an extract from the annual report of the Medical Officer of Health for Salford: "There are still six female Health Visitors working in certain districts of the borough, under the joint direction of the Corporation and the Ladies' Health Society. They have maintained their former reputation by the care with which they have carried out the duties assigned to them. These duties consist mainly in house-to-house visitation, in which they endeavour to induce habits of cleanliness of house and person, and greater care of children. In cases of illness they lend a helping hand to forward these objects. They report direct to the Health Department cases of overcrowding and nuisance which they may discover in their visits, and many of these reports have afforded valuable information for the furtherance of the work of the department."

During the month of June the society received a portion of the Jubilee gift of Australian meat, which was divided among the districts.

The society during the year has received three gifts of clogs from the *Umpire St. Christopher Fund*, amounting in all to 488 pairs.

Another very acceptable gift came from the Manchester, South-East Lancashire, and East Cheshire Needlework Guild, and consisted of 192 articles of clothing.

The society was represented at the Conference of the National Union of Women Workers, held at Croydon in October, by Mrs. Charles Hughes.

The Manchester Health Visitors again distributed handbills on infant feeding, with a view to the prevention of summer diarrhoea,

on behalf of the Corporation, and this year also the Salford Health Visitors had similar handbills for distribution.

The Health Visitors in the district both of Manchester and Salford have been recently turning their attention to the subject of the giving of sweets to children in public-houses.

The local reports of the districts, written by the Lady Superintendents, give details of the various ways in which the society can influence and help the poor and ignorant; while the following tables, giving the number of visits paid by the Health Visitors on behalf of both Corporations, show that small part of the work that can be expressed in figures:—

#### LADIES' HEALTH SOCIETY.

##### WORK OF FEMALE HEALTH VISITORS FOR THE YEAR, NOVEMBER, 1896, TO NOVEMBER, 1897. MANCHESTER.

DISTRICT.	No. of Cottages in District.	Visits paid to Cottages.		In each 100 Cottages visited the number found					Special Reports.	Average Death Rate.
		Special.*	Ordinary.†	Dilapidated.	Dirty.	Improved since last visit.	Overshadowed.	Invaded by Sickness.		
1. Ancoats, West .....	1,433	134	2,060	1	3	10	1	42	107	42·0
2. Ancoats, North .....	2,137	183	2,409	3	26	16	—	16	49	30·7
3. Ancoats, South .....	1,398	130	2,583	3	13	13	1	16	348	32·7
4. Ancoats, East .....	1,166	105	2,742	6	7	2	·4	12	178	29·2
5. London Road .....	1,820	177	3,365	25	27	7	1	28	87	34·0
6. Deansgate .....	1,705	152	1,944	17	31	23	·3	9	129	35·3
7. St. George's, North...	3,052	264	2,407	8	2	5	·4	32	128	26·8
8. St. George's, East ...	1,421	180	2,723	3	3	5	·1	5	66	25·1
9. St. George's, Central..	1,422	127	2,575	2	9	8	·3	6	192	39·2
10. Angel Meadow.....	1,023	76	2,125	7	6	4	1	13	124	50·9
11. C.-on-M., North .....	1,808	177	2,197	1	·3	1	·1	3	8	32·9
12. Hulme, West .....	830	6	2,443	1	9	53	1	26	95	34·7
13. Hulme, Central .....	3,288	287	1,962	1	9	42	1	20	37	28·8
Total.....	22,504	1,998	31,535	6	11	14	·4	18	1,548	—

#### SALFORD.

1. Ordsal .....	1,709	—	2,622	1·6	2·8	62·0	0·6	4·3	5	31·2
2. Trinity .....	1,813	—	6,930	0·5	0·6	48·9	1·0	0·9	1	36·5
3. Adelphi .....	1,726	—	4,347	1·2	5·3	81·9	0·9	1·1	6	28·4
4. St. Simon's, No. 1 }	2,850	—	3,304	2·4	7·5	57·1	1·5	2·3	18 }	32·2
5. St. Simon's, No. 2 }	2,192	—	2,198	8·6	17·1	51·1	2·3	9·2	10 }	—
6. St. George's .....	2,192	—	2,811	0·6	2·0	20·1	0·6	1·5	—	26·5
Total.....	10,290	—	22,212	1·9	4·6	54·7	1·1	2·5	40	—

\* Visits on behalf of the Medical Officer of Health *re* cases of death.

† Visits paid in course of the ordinary house-to-house inspection.

## ANCOATS.—WEST.

Boundaries: Great Ancoats Street, Union Street, Rochdale Canal,  
Butler Street, and Oldham Road.

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*Lady Superintendent*—Miss STUART.

*Health Visitor*—Miss GRIMES.

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THE work in this district has gone on much as usual during the past year. It is impossible to make much variation in the local report, and the causes which conduce to sameness in the account of the work done seem proof how very necessary the efforts of the Health Visitor are to mitigate the innumerable evils, small and great, with which the poor people are constantly battling. It is, however, satisfactory to know that the unostentatious but most conscientious work of the Health Visitor is simply invaluable in the district.

The attendance at the Mothers' Meeting continues to increase, though we have perhaps had less variety to offer this year than in any previous one. Some of the very poor mothers have greatly benefited by a change to country air for a week or two, which we have been enabled to procure for them this summer. Our trip was to Blackpool by unanimous request, and was greatly enjoyed.

The House Visitor reports an increased demand for the use of the whitewash brushes. She has sold 30cwt. of soap, and given away 20 tins of powder during the past year.

# SMOKE ABATEMENT LEAGUE.

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COMMITTEE and OFFICERS for the Year 1898.

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*President :*

RIGHT HON. LORD EGERTON OF TATTON.

*Vice-Presidents:*

Right Hon. THE EARL OF SEFTON.	Sir Wm. LENG (Sheffield).
Mrs. Horwood.	E. C. G. HOPWOOD, Esq.
T. C. HORSFALL, Esq.	HERBERT PHILIPS, Esq.

*Committee:*

JAMES JOHNSTON, Esq., J.P. (Chairman).

JOHN BAGOT, Esq.	R. GLASSFORD LAWSON, Esq.
B. BURDEKIN, Esq.	C. D. LENG, Esq.
ROBERT BELFITT, Esq.	GEORGE RHODES, Esq.
CHAS. H. BINGHAM, Esq.	S. G. RICHARDSON, Esq.
J. E. BINGHAM, Esq.	J. SHEPHERD, Esq.
Wm. CHESTERMAN, Esq.	Wm. SMITH, Esq., M.D.
Rev. T. E. CLEWORTH.	F. SMITH, Esq.
JAMES FILDES, Esq.	J. W. SOUTHERN, Esq., J.P.
WALTER HALL, Esq.	Rev. Canon WOODHOUSE, M.A.
T. JEPSON, Esq.	WILLIAM WYNN, Esq.

*Hon. Consulting Chemists:*

CHAS. ESTCOURT, Esq., F.C.S., F.I.C.  
J. CARTER BELL, Esq., F.I.C., A.R.S.M.

*Treasurer:* WILLIAM THOMSON, Esq., F.C.S.

*Hon. Secretary:* Dr. WM. GRAHAM.

*Secretary:*

FRED SCOTT, Temple Chambers, 33, Brazenose Street, Manchester.

# SMOKE ABATEMENT LEAGUE.

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## REPORT OF COUNCIL FOR 1897.

THE chief work of the Council during the year 1897 has been the preparation of a memorial to the Local Government Board, urging that the smoke nuisance should be placed under the control of the Inspectors of Alkali Works, or a distinct staff of Government inspectors, who would be independent of local influences. This work involved correspondence extending over several months, and the issue, on a large scale, of circulars, which secured the support of a large number of societies and representative persons throughout the kingdom. The League had the co-operation of the Smoke Abatement Section of the Leeds Sanitary Aid Society and the Sheffield Smoke Abatement Association in the work. The memorial has not yet been presented, as it was not completed before the termination of the last Session of Parliament, and the President of the Local Government Board has not yet consented to receive a deputation. The memorial is, however, so influentially signed, that its promoters think it ought to carry great weight with the Government, whether presented by deputation or not.

The Council have not deemed it necessary to take any active steps in Manchester during the year, as the Sanitary Committee of the Corporation has continued to prosecute offenders systematically. A vigilant attitude on the part of the League has, however, been necessary, as one or two professed opponents of interference by the Corporation with manufacturers have secured election to the Council.

The Council, recognising that the action of the Salford Corporation, in dealing with the smoke nuisance, was such as to permit

excessive air pollution, willingly joined with the Manchester and Salford Sanitary Association in sending a deputation to the Mayor of Salford, to present a memorial to the Council (see appendix of Sanitary Association's report). As a result of the interview, this Council believes that steps will now be taken to assimilate the regulations in Salford in respect of smoke offences to those of Manchester.

The Council have had under consideration the question of holding a Stoking Competition, with the object of promoting efficient hand firing of boilers, but they have not yet succeeded in obtaining the consent of a steam user to have the competition at his mill or works.

The Council have during the year circulated a considerable number of the Reports of the Committee for Testing Smoke Preventing Appliances.

Reports of the Middleton and Sheffield Branches are appended.

## SMOKE ABATEMENT LEAGUE.—MANCHESTER BRANCH.

*Cash Statement, December 31st, 1897.*

Examined and found correct,

FRANCIS E. M. BEARDSALL,

Chartered Accountant.

January 31st, 1898.

# SMOKE ABATEMENT LEAGUE.

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## MANCHESTER AND SALFORD BRANCH.

*(In union with the Manchester and Salford Sanitary Association.)*

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### Committee and Officers for the Year 1898.

#### *Chairman.*

JAMES JOHNSTON, Esq., J.P.

#### *Committee.*

JAS. FILDES, Esq.  
 T. C. HORSFALL, Esq., J.P.  
 T. JEPSON, Esq.  
 R. GLASSFORD LAWSON, Esq.  
 GEORGE RHODES, Esq.  
 COUNCILLOR WM. SMITH, M.D.  
 MR. COUNCILLOR F. SMITH.  
 MR. ALDERMAN J. W. SOUTHERN, J.P.  
 REV. CANON WOODHOUSE, M.A.  
 HERBERT PHILIPS, J.P.  
 DR. GRAHAM.

#### *Hon. Consulting Chemists.*

CHAS. ESTCOURT, Esq., F.C.S., F.I.C.  
 J. CARTER BELL, Esq., F.I.C., A.R.S.M.

#### *Treasurer.*

WILLIAM THOMSON, Esq., F.C.S.

#### *Secretary.*

MR. FRED SCOTT, TEMPLE CHAMBERS, 33, BRAZENNOSE STREET,  
 MANCHESTER.

# SMOKE ABATEMENT LEAGUE.

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## MIDDLETON BRANCH.

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*President and Treasurer :* Mrs. HOPWOOD.

*Vice-Presidents :*

Rev. T. E. CLEWORTH. Dr. W. GRAHAM. Mr. J. SHEPHERD.

*Hon. Secretary :* Mr. WILLIAM WYNN, Sedgeley Terrace, Middleton Junction.

*Committee :*

Mr. JOHN BAGOT.	Mrs. COLEMAN.	Mrs. GRAHAM.
Mrs. W. M. WIGGINS.		Mr. A. WATERS.

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THE Inspector's Report for this branch shows that during the past year there has been considerable improvement in the district, and it is satisfactory to be able to report that the number of cases which call for prosecution is diminishing. Thus, in 1897 the number of firms summoned, including two at Radcliffe, was 20, against 22 in the Middleton district in 1896. The gradual increase of fines, too, seems to show that there is on the part of the magistrates a growing intolerance of the smoke nuisance. In order to maintain this progress, however, the greatest possible vigilance is necessary, as the Committee have reason to believe that any relaxation of activity in enforcing the law against offenders would result in a corresponding increase of the nuisance. The experience of this branch shows the importance of other branches maintaining an uncompromising attitude, and the need for extension of the organisation, failing success in the attempt to induce the Local Government Board to take control of the smoke nuisance into their own hands.

This branch still maintains its numbers. There are 280 subscribing members and 20 honorary members; total, 300.

The following is a statement of the operations of this branch in 1897.

[See appended Table.]

SMOKE ABATEMENT LEAGUE—MIDDLETON BRANCH.

REPORT OF POLICE COURT PROCEEDINGS DURING THE YEAR 1897.

MIDDLETON POLICE COURT.

Name of Firms.	Prosecutor.	Number of Boilers.	Average Black Smoke.	Number of Times Convicted.	Number of Cases	How Disposed of.
S. Barlow and Co. Limited, Stakehill Bleach-works .....	Mrs. Hopwood	7	Minutes. 12 per hour	Twice	5	Fined 10s. and costs.
Irkdale Bleachworks Co. Limited .....	,	5	,	Twice	5	, 10s. to 20s. and costs.
Rhodes Manufacturing Co. Limited .....	,	2	10 ,	Once	2	, 5s. and costs.
Thomas Partington, Brickworks.....	,	1	13 ,	Twice	4	, 5s. to 10s. and costs.
S. Schwabe and Co. Limited .....	,	21	18 ,	Twice	4	, 5s. to 10s. and costs.
CHADDERTON DISTRICT POLICE COURT.						
Stock Lane Spinning Co. Limited .....	Mrs. Hopwood	2	Minutes. 14 per hour	Twice	5	Fined 10s. and costs.
Sun Mill Co. Limited .....	,	5	,	Twice	5	, 10s. and costs.
Chadwick and Co., Bleachers .....	,	2	13 ,	Once	3	, 20s. and costs.
Grimshaw Lane Mill Co. ....	,	3	10 ,	Once	2	, 10s. and costs.
The Lancashire and Yorkshire Railway Co. ....	,	2 Locos.	7 half hour	No	2	Dismissed.

SMOKE ABATEMENT LEAGUE—MIDDLETON BRANCH—*Continued.*

ROYTON POLICE COURT.

Name of Firms.	Prosecutor.	Number of Boilers.	Average Black Smoke.	Number of Times Convicted.	Number of Cases.	How Disposed of.
Belgian Mill Co. Limited.....	Mrs. Hopwood	3	14 per hour	Once	4	Fined 10s. and costs.
Empire Spinning Co. Limited.....	,	2	13 ,,	Once	4	, 10s. and costs.
Lion Spinning Co. Limited .....	,	5	14 ,,	Once	2	, 10s. and costs.
Holly Mill Co. Limited.....	,	4	13 ,,	No	1	Order to abate and costs.
Royton Spinning Co. Limited.....	,	3	12 ,,	No	1	Order to abate and costs.
Holly Mill Co. Limited.....	,	4	14 ,,	Once	2	Paid costs, allowed time.
Messrs. Sevilles and Co. Limited .....	,	3	15 ,,	No	2	Paid costs, allowed time. Case withdrawn.
Shiloh Spinning Co. Limited .....	,	2	13 ,,	3 times	7	Fined 10s. and costs each.
Total number of summonses.....						
64						
RADCLIFFE DISTRICT POLICE COURT.						
John Wild and Sons, Paper Mills .....	Mrs. Hopwood	5	22 per hour	No	2	Order to abate and costs.
Clayton and Co., Bleachers, &c.....	,	2	19 ,,	No	2	Order to abate and costs.
Total number of summonses.....						
64						

## SMOKES ABATEMENT LEAGUE—MIDDLETON BRANCH.

*Approximate\* Statement of Receipts and Expenditure for the twelve months ended December 31st, 1897.*

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\* As the Treasurer (and President), Mrs. Hopwood, keeps no record of her expenditure for the branch, only an approximate statement can be submitted.

# SMOKE ABATEMENT LEAGUE.

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## SHEFFIELD AND ROTHERHAM BRANCH.

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*President:*  
THE EARL OF WHARNCLIFFE.

*Chairman:*  
CHAS. H. BINGHAM, Esq.

<i>Committee:</i>	
B. BURDEKIN, Esq.	WM. CHESTERMAN, Esq.
S. G. RICHARDSON, Esq.	J. E. BINGHAM, Esq.
ROBERT BELFITT, Esq.	WALTER HALL, Esq.

*Honorary Secretary:* C. D. LENG, Esq.

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During the year 1897 this branch was very active, having an inspector out every day. Assisted by Mr. Chisholme, of Manchester, he had no difficulty in finding bad cases, and summonses were taken out and fines inflicted by the magistrates, with the result that many smoke-consuming appliances were fixed, and the atmosphere became perceptibly better. At an appeal, which was heard before the Recorder, the two inspectors, confused by the severe cross-examination of counsel and judge, broke down, and the verdict went in favour of the defendants. This necessitated the engagement of new inspectors, and the work of the branch was consequently stopped for a period, until these were found and initiated into the system of taking observations.

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### SMOKE PROSECUTIONS, 1897.

*Nunnery Colliery Co.*—For disobedience of order, withdrawn on Turtons' appeal.

*J. McClory and Sons.*—Order for abatement and payment of £2 11s. 6d. costs.

*S. Osborn and Co.*—Order for abatement and payment of £2 8s. 6d. costs.

*Beesley and Co. Limited.*—Order for abatement and payment of £2 8s. 6d. costs.

*T. Turton and Sons (two cases).*—Order for abatement in both cases, and payment of £1 15s. 6d. costs in each case. Turtons appealed, and order discharged.

*Victoria Vinegar Brewery Co.*—Order for abatement and payment of £1 18s. costs.

*Eastbrook, Alcard, and Co.*—Order for abatement and payment of £1 18s. costs.

*Swift Bros.*—Order for abatement and payment of £1 18s. costs.

*Old Park Silver Mill Co. Limited.*—Order for abatement and payment of £1 18s. costs.

*John Baker and Sons.*—Dismissed, but without costs.

*Burys and Co. Limited.*—Dismissed, with payment of £1 15s. 6d. costs.

*Kerridge.*—Withdrawn after Turtons' appeal.

*Marsden and Sons (two cases).*—Order for abatement in both cases, and payment of £1 10s. costs in each case.



